Desmos Workshop

Agenda

* Getting Started (Taylor - 5 mins)
  + Sign-Up [Free]
  + Sharing graphs with other members (So everyone has the examples)
* Intro to Desmos
  + The interface (Sean - 5 min)
    - all the buttons and what they do
    - sliders
    - Using pre-made templates within Desmos
* Examples of Use in a Classroom (9 minutes)
  + Grade 9
    - Linear Functions (K.V. - 3 mins)
      * Table of values
      * plotting points
      * plotting lines
  + Grade 10
    - Quadratic Functions (Sean - 3 mins)
      * inserting functions
      * using sliders to show transformations
  + Grade 11
    - Sinusoidal Functions (Taylor - 3 mins)
      * Creating lessons from scratch (applications)
      * Inserting Pictures
* **Activity 1** (Sean - 7 mins)
  + Plot a line using the formula y=mx+b and create sliders for m and b
  + Create a second line that is perpendicular to your first line regardless of what value m takes
* **Activity 2** (Taylor - 7 mins)
  + FInd a picture of a pirate ship, cannon ball, and an island
  + Anchor the ship and the island to two points (-3,0) and (5,0)
  + Have the cannonball travel a quadratic path from the ship to the island
* **Activity 3** (K.V. - 7 mins)
  + Without using the template:
    - plot a more complicated function
    - plot the tangent line to this curve at a general x-value (using a slider for x)
    - the tangent line should “ride along” the curve as the x-value changes
    - \*\*\*after 5 mins show template of tangent line and let them alter it
* Q&A And Final Thoughts (Everyone - 5 minutes)
  + Advanced Desmos Scripts
    - <https://class.desmos.com/carnival>
    - <http://mrhonner.com/desmos>
  + Remaining Questions

Website Login: (WIX)

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Check out: <http://blog.desmos.com/> for more examples